N.B.—These Programmes must be used in conjunction with *An Essay Towards a Philosophy of Education* (see N.B. 2).

Programme 124†   L$_5$

(*Sept. to Dec., 1932.*
Jan. to March, 1933, overseas.)

Parents' National Educational Union.

The Parents' Union School.

(*Address:* The Director, The Parents' Union School, Ambleside.)

Motto : "*I am, I can, I ought, I will.*"

(He shall) " pray for the children to prosper in good life and good literature."—(Dean Colet.)

FORMS VI. & V.
(Ages 15 to 18).

Pupils' Names..

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Scripture.

VI. & V. *The One Volume Bible Commentary*, by J. R. Dummelow (Macmillan, 10/-) : The Captivity and Return, with reference to *Nehemiah*, pp. 278-284, and *Isaiah*, chapters 40-55, pp. 440-448. *The Life of Our Lord*, compiled by R. G. Ponsonby (Bell, 2/6), pp. 153-230. *The Saviour of the World*, Vol. IV. (P.N.E.U. Office, 3/-), pp. 1-65, with Bible text (see Index).

For Sunday reading (optional) :

VI. Stanley's *The Eastern Church* (Dent, 2/-), pp. 325-379. *A Short History of Our Religion*, by D. C. Somervell (Bell, 5/-), pp. 212-264. *The Re-making of Man in Africa*, by J. H. Oldham and B. D. Gibson (Milford, 2/6). *Life of St. Francis*, by G. K. Chesterton (Hodder & Stoughton, 2/6). *Christianity and Science in the Twentieth Century*, by Rev. A. E. Baker (Eyre & Spottiswoode, 2/-). *The Testament of Beauty*, by Robert Bridges (Oxford Press, 7/6), pp. 1-80.

V. Stanley's *Sinai and Palestine* (Murray, 2/6), pp. 179-241. *The Story of a Labrador Doctor*, by Sir Wilfred Grenfell (Hodder & Stoughton, 1/-). *The Quest of Nations*, by T. R. W. Lunt (E.H.P. 2/6). *Christian Outlines*, by Cyril Alington (Nicholson & Watson, 2/6). Francis Thompson's *The Hound of Heaven* (Methuen's *Anthology of Modern Verse*, 2/6). Matthew Arnold's *Poems* (Dent, 2/-).

VI. & V. *Daily Readings and Notes* (Series A), monthly schemes, from the Secretary, B.R.F., 19, Old Queen St., London, S.W. 1 (2/6 a year). *The Adventure of Paul of Tarsus*, by Rev. H. F. B. Mackay (Philip Allan, 7/6), pp. 206-279.

† The 124th term of work set since the Parents' Union School began.

Composition. (The daily " reports " also come under this heading.)

VI. & V. A good *précis* (see Morgan & Treble below, Section IV.). Essays on subjects suggested by the term's work in Literature, History, Science, or, on topics of the day. Occasionally write verses, *which must scan*; (see *The Nature of English Poetry*, by L. S. Harris (Dent, 5/-); also Morgan & Treble, Section VII.). *A Dictionary of Modern English Usage*, H. W. Fowler (Oxford, 7/6).

English Language.

Both Forms, parse and analyse every week.

VI. Taylor's *Words and Places* (Dent, 2/-), pp. 299-409. *On the Art of Writing*, by Sir A. Quiller-Couch (Cambridge Press, 5/-), pp. 1-110.

V. For revision and reference (Accidence, Syntax, History of Language, etc.) use *A Senior English Grammar*, by R. B. Morgan & H. A. Treble (Murray, 3/6). Trench's *On the Study of Words* (Dent, 2/-), pp. 9-44; Lectures I., and II.

Literature (Books set include holiday and evening reading).

VI. & V. (a) *The Lyrical Dramas* of Æschylus: *The Persians* (Dent, 2/-); (b) Bernard Shaw's *St. Joan* (Constable, 6/-); or, read from *The Dynasts*, by Thomas Hardy (Macmillan, 8/6); (c) *One-Act Plays of To-day*, Second Series (Harrap, 2/6): *Riders to the Sea*.

VI. (d) *Of Reading Books*, by J. Livingstone Lowes (Constable, 5/-), pp. 81-153; (e) *Beauchamp's Career*, by George Meredith (Constable, 5/-); or, *Barchester Towers*, by Anthony Trollope (Nelson, 1/6); (f) *Under the Greenwood Tree*, by Thomas Hardy (Dent, 1/4); (g) *Selected Modern English Essays* (Oxford, 2/-); (h) Poems by Bridges,* Hardy, Meredith,* Masefield and Chesterton*; see *The Oxford Book of English Verse* (Oxford, 8/6), and *The Bookman Treasury of Living Poets* (U.L.P., two parts, 3/6 each), also *The Augustan Books of English Poetry*, selections, for those marked * (Benn, 6d. each).

V. (d) Lord Grey's *Fallodon Papers* (Constable, 3/6); (e) *Kim*, by Rudyard Kipling (Macmillan, 6/-), or, *Joseph Vance*, by W. de Morgan (Nelson, 2/-); (f) *The Shadow Line*, by Joseph Conrad (Dent, 1/4); (g) *Alpha of the Plough*, Series III., Selected Essays by A. G. Gardiner (Dent, 1/4); (h) Poems by: Kipling (*A Choice of Songs* Methuen, 2/-), T. E. Brown,* Drinkwater,* Rupert Brooke*; see *Selections from Modern Poets*, edited by J. C. Squire (Secker, 6/-), also *The Augustan Books of English Poetry*, selections, for those marked * (Benn, 6d. each).

Keep a Commonplace Book for passages that strike you particularly. Learn a hundred lines of poetry. Be able to give some account of what you have read in each book, with sketches of the chief characters.

British History.

V. *A Short History of Great Britain since 1714*, by R. B. Mowat (Oxford, 3/6). pp. 683-753 (1901-1927). Read from *Days to Remember*, by John Buchan and Sir Henry Newbolt (Nelson, 1/9). *The English Speaking Nations*, by G. W. Morris and L. S. Wood (Oxford Press, 3/6), pp. 354-372, may be used.

General History.

VI. *Modern History 1750-1925*, by H. W. Hodges (Blackie, 7/6). read from pp. 276-357. *The Modern World*, by F. S. Marvin (Longmans, 3/6), pp. 241-314. *Twenty-Five Years*, by Lord Grey (Hodder & Stoughton, 3 Vols., 2/6 each), read from Vols. II. & III. Read from *The Life and Letters of Walter Page*, by B. J. Hendrick (Heinemann, 5/-). Masefield's *Gallipoli* (Heinemann, 7/6), if possible.

V. *Ancient Times*, by J. H. Breasted (Ginn, 10/6), pp. 200-250. *Medieval and Modern Times*, by J. H. Robinson (Ginn, 10/6), (latest edition), contemporary European history from pp. 728-805 (1914-1924).

VI. & V. Continue a Book of Centuries (P.N.E.U. Office, 1/9, or better, 2/6; see illustrated leaflet by Miss Bernau, P.N.E.U. Office, 6d.), putting in illustrations from all the history studied during the term (Bible, English, General). Visit museums. Make summaries of dates and events. Use maps. Make charts. *History Charts* (P.N.E.U. Office. 6d.).

Smith's *Classical Dictionary* (Dent, 2/6). *An Atlas of Ancient and Classical Geography* (Dent, 2/6).

Every-Day Morals and Economics.

VI. Plato's *Four Socratic Dialogues: Crito* (Oxford Press, 4/6). *The Ordeal of This Generation*, by Gilbert Murray (Allen & Unwin, 4/6). *Everybody's Business*, by Hartley Withers (Cape, 10/6), pp. 117-226.

V. *Ourselves*, Book II. (P.N.E.U. Office, 3/6), pp. 104-136. *The Dawn of World Order*, by N. C. Smith and J. C. M. Garnett (Oxford Press, 3/6).

Geography.

VI. & V. *A New Regional Geography of the World*, by M. I. Newbigin (Christophers, 5/-), pp. 3-62.

VI. *The Unveiling of Lhasa*, by Edmund Candler (Arnold, 3/6). *A Shorter Physical Geography*, by E. de Martonne (Christophers, 7/6), pp. 257-322.

V. Huxley's *Physiography* (revised edition, Macmillan, 5/-), pp. 1-45, or, take Martonne, with VI. Mort's *An Elementary Practical Geography* (Blackie, 2/6), pp. 38-52. Optional reading: *The Last Secrets*, by John Buchan (Nelson, 2/6).

Philip's *Pocket Surveyor* (Philip & Son, 2/6), will be found useful.

VI. & V. Know from atlas (gazetteer) something about foreign regions coming most into note in the newspapers, and in connection with history, etc., studied. Summarise readings by memory maps on blackboard. Some account of the Physiography of your neighbourhood, with diagrams.

The Oxford Advanced Atlas, by J. Bartholomew (1931, Oxford, 10/6).

General Science.

VI. *Discovery*, by Sir Richard Gregory (Macmillan, 3/-), pp. 125-233. *The Great Biologists*, by Sir J. Arthur Thomson (Methuen, 2/6), pp. 59-114.

V. *Scientific Ideas of To-day* (1925 edition), by C. R. Gibson (Seeley, 6/-), pp. 285-348.

VI. & V. *Geikie's Geology* (revised 1927, Macmillan, 7/6), pp. 276-322. Some account of the geology of your neighbourhood, drawing sections.
The Ordnance Survey Geological Map of the British Isles (Stanford, 2/-). *Geological Map of Europe* (Oxford Press, 2/6).

Biology, Botany, Physiology, etc.

VI. *The Study of Animal Life*, by Sir J. Arthur Thomson (Murray, 6/-), pp. 158-218. *The Romance of the Human Body*, by R. C. Macfie (Gardner, Darton, 5/-), pp. 175-214.

V. *Botany*, by D. Thoday (Cambridge Press, 7/6), pp. 14-87, and 219-238. For suggestions for out-door work : Dr. Caver's *Botany* (University Press, 8/6) will be found useful, see questions following chapters xxvii., x., xxv. (ecology, roots, conifers).
Specimens must be found, if possible, for all botanical work, and experiments must be made. Keep a *Nature Note Book* with flower and bird lists (P.N.E.U. Office, 2/3).

Astronomy.

VI. *The Mysterious Universe*, by Sir James Jeans (Cambridge Press, new edition, 2/-), pp. 1-39, or work with V.

V. *The Story of the Heavens*, by Sir R. S. Ball (Cassell, 15/-), pp. 1-68, Introduction and chapters 1 and 2.
Follow newspaper reports on astronomical subjects. Make charts of the changes in position of the constellations and planets visible. *Stars at a Glance* (Philip, 1/6).

French.

VI. & V. *L'Enseignement Littéraire du Français*, by J. Molmy, Vol. II. (Hachette, 3/-), lessons 42-50. *Three Plays*, by A. de Musset (Nelson, 2/-), pp. 149-232, *Carmosine*. Take a French paper (list can be obtained from Hachette).

VI. *La Vie de Disraëli*, by André Maurois (P.N.E.U. Office, 3/-). *The Oxford Book of French Verse* (Oxford Press, 8/6).

V. About's *Le Roi des Montagnes* (P.N.E.U. Office, 2/-). *A Book of French Verse* (Oxford Press, 4/-), learn two poems.

Latin.

VI. Allen's *Latin Grammar* (Clarendon Press, 3/-), pp. 3-18; 110-114; 128-129. *Limen*, Part II. (Murray, 2/6), pp. 268-279; 173-207. *A Book of Latin Poetry* (Methuen, 2/-). *A Book of Latin Letters*, edited by R. G. C. Levens (Methuen, 3/6), pp. 44-63.

V. *Limen* (Murray, 2/6), pp. 1-95, or, (second year), pp. 173-207. *Livy Book II.*, edited by R. S. Conway, Litt. D. (Cambridge Press, 3/-), §§ 1-15.
Dies Romani, by W. F. Witton (Arnold, 2/-), may be used for practice in translation.

German.

VI. & V. *A Public School German Primer* (Macmillan, 4/-), VI. : revise pp. 102-130, and 255-256. V.: pp. 64-77, inclusive. Learn poems from *Deutsche Lyrik* (Macmillan, 3/6).

VI. *Jörn Uhl*, by Gustav Freussen, first half (Harrap, 4/6).

V. *Immensee*, by Theodor Storm (Hachette, 6d.)

or, **Italian.**

VI. & V. *Italian Lessons and Readings*, by C. U. Clark (Harrap, 5/-): read from Part II., using Part I. and Appendices for studies in Grammar. *Italian Irregular Verbs* (Hachette, 1/-). For conversation practice, *Brush Up Your Italian*, by G. Tassinari (Dent, 2/6).

VI. Read three cantos from Dante's *Il Purgatorio* (Dent, 2/-). *Le Mie Prigioni*, by Silvio Pellico (Hachette, 2/6). *The Hundred Best Italian Poems* (Gowans & Gray, 1/-).

V. *All' Aria Aperta*, by Renate Fucini (P.N.E.U. Office, 1/8). *First Book of Italian Verse*, selected by John Purves, M.A. (Oliver & Boyd, 6/-).

Arithmetic.

VI. & V. Dr. Ballard's *Fundamental Arithmetic*, Book VI. (London University Press, 1/1), pp. 69-96; Teacher's Book VI. (2/3) is also essential. For mental work, *Arithmetical Dictation*, Book VI., by Alfred Wisdom (U.L.P., 1/3), Exs. 401-420.

or (second year) Dr. Ballard's *Fundamental Arithmetic*. Book VII. (1/4), pp. 62-90, 95-97, 108-112 (sets M-R), with Teacher's Book VII. (2/6).

Geometry.

VI. & V. *A Shorter School Geometry*, by H. Hall and F. Stevens (Macmillan, 4/6), pp. 232-252; *or*, (second year), pp. 270-277, and revise section V.
The School Set of Mathematical Instruments (P.N.E.U. Office, 2/-).

Algebra.

VI. & V. *A School Algebra*, by H. Hall, Parts I. and II. (Macmillan, 4/6) pp. 219-223, 240-244, 250-254 ; *or*, (second year), 345-362, 385-394.

Art Studies.

VI. *The Painters of Florence*, by Julia Cartwright (Murray, 6/-), pp. 1-72, inclusive. *A Short Critical History of Architecture*, by H. Heathcote Statham, Vol. III. (Batsford, 6/-), pp. 363-447.

VI. & V. *The Basis of Design*, by Walter Crane (Bell, 10/-), pp. pp. 160-221.

V. *Schools of Painting*, by M. Innes (Methuen, 6/6), chapters 1-7. *The Story of Architecture*, by P. L. Waterhouse (Batsford, 6/-), pp. 105-148.
For reference: *Styles of Architecture*, by A. Stratton (Batsford, 1/6).

VI. & V. Six reproductions of works by Raphael (P.N.E.U. Office, 2/- the set); see notes in the September *Parents' Review*.

Reading.

The Speaking Voice, by Emil Behnke (Curwen & Son, 7/6), pp. 207-222, with practice of previous exercises. *The Art of Reading and Speaking*, by Canon Fleming (Arnold, 3/6).

Music Appreciation.

The work of Haydn: see (*a*), article, and (*b*), records suggested under *Our Work*, in the September *Parents' Review*. *Haydn*, by M. Brenet (Oxford Press, 6/-). *The Enjoyment of Music*, by A. W. Pollitt (Methuen, 5/-).

Music.

Choose and learn suitable compositions by Haydn. (*a*) *The Growth of Music*, by H. C. Colles (Oxford Press, 10/6). (*b*) *Foundations of Practical Harmony and Counterpoint*, by R. O. Morris (Macmillan, 7/6), four chapters each term; see preface. (*c*) For revision, *Elements of Music*, by F. Davenport (Longmans, 1/6).

Singing.

Two English and two French songs or carols; two German songs or two Italian songs. Haydn's *The Seasons* (Oxford Press, 6/-): the songs may also be had separately).

National or Folk Songs from *Songs of the British Islands*, edited by Sir H. Hadow (Curwen, 6/-), or, from *The Oxford Song Book*, Vol. II. (Oxford Press, 7/6); *The Clarendon Song Books*, Books V. & VI. (Oxford Press, 2/6 or 3/- each, words and voice only, 6d. or 8d. each).

Drill, etc.

Daily drill, dancing or games.

A Manual of Free Standing Movements, by H. D. Hassum (Hachette, 1/8). *Syllabus of Physical Training for Schools*, 1927, Supplement No. 12 (H.M. Stationery Office, 4d.). Six Country Dances: *The English Country Dance*, Graded Series, Vols. VI.-VIII. (Novello, 3/- each); music and instructions for six dances in each volume; *The Apted Book of Country Dances* (Heffer, instructions and airs, 3/-, pianoforte tunes, 2/6). Hockey; Lacrosse; Netball.

Work: Arts and Crafts.

(*a*) Leatherwork. Make Christmas presents.
Leatherwork, by J. Kay (Cassell, 1/3).

(*b*) Studies in lettering, heraldry, texture, colour; see *Drawing, Design and Craftwork*, by F. J. Glass (Batsford, 12/-), pp. 132-152.

(*c*) Design and work some embroidery, and make a garment. See *Art in Needlework*, by Lewis F. Day and M. Buckle (Batsford, 7/6); *Pattern Making and Cutting Out*, by Mrs. E. Griffiths (Oxford Press, 4/6).

(*d*) Do some definite house and garden work. Darn and mend each week.
Practical Housecraft: (1) *Housewifery*, (2) *Laundry*, (3) *Cookery* (Longmans, 6d. each).

Help the "Save the Children Fund," 26 Gordon Street, London. W.C.1.

The Cambridge School Certificate Examination may be taken on the work set in the P.U.S. Programme for Form V. See special leaflet. For further details write to the Director, The Parents' Union School, Ambleside.

GENERAL NOTES.

N.B. 1.—Members are asked to remember that an average pupil should cover the whole programme suitable for her age. The lighter portions of the Literature (novel, play and poems) are read for amusement in the evenings and also in the holidays. Music, Handicrafts, Field Work, Dancing, Nature Note Books, Century Books, are taken in the afternoons. Form VI. work should not be attempted unless the full two years' work has been done in Form V. (Ages in V., 15 to 17).

N.B. 2.—For principles and methods of teaching the various subjects see *An Essay Towards a Philosophy of Education* (7/6), *Parents and Children* (5/-), (P.N.E.U. Office). A record of work should be kept (see leaflet H).

N.B. 3.—In Grammar (English and foreign) and in mathematics there must be no gaps (see leaflet G) Pupils, if not at the stage indicated, must in these subjects either (*a*) begin the book set if the subject is new, or (*b*) continue the subject in the set book from the point they have reached; but they will be handicapped in the future if they have not covered the full course for the Form.

N.B. 4.—Each pupil should have a copy of her own books, and a set of the Pictures and materials. It is essential to have the latest edition, from which the set pages and examination questions are taken. The books set for Drawing, Music, Drill and Handicrafts (and any others printed in small type) are advisable but optional. The work of the Programmes cannot be fully carried out unless each pupil keeps a Nature Note Book and a Century Book.

N.B. 5.—Members are particularly asked to follow the notes under *Our Work* and in *Notes and Queries* in the *Parents' Review*.

N.B. 6.—The current Programmes are for Members of the School only and must not be lent. Specimen copies of old Programmes can be obtained by members from the Director, The Parents' Union School, Ambleside.

N.B. 7.—All books, P.U.S. badge, colours, stationery, etc., may be obtained from the Secretary of the P.N.E.U., 26, Victoria Street, London. S.W. 1. (Office hours: 10 a.m. to 1 p.m., and 2 p.m. to 4 p.m., except Saturdays.)

N.B. 8.—All letters about the School and the Programmes (and also the School Fee) should be sent to The Director, The Parents' Union School, Ambleside, Westmorland. Orders for books, etc. (and also the P.N.E.U. subscription) should be sent as early as possible to the P.N.E.U. Office, 26 Victoria Street, London, S.W. 1.

To Ex-P.U.S. Members and Ex-Students of the House of Education taking the P.U.S. Reading Course.

Bibliographies for further reading will be found in *Ancient Times, Medieval and Modern Times,* Hodges' *Modern History.*

The following books are also suggested: *Everyman's Bible,* an anthology chosen with an introduction by Dean Inge (Longmans, 7/6); Bishop Gore's *The Philosophy of the Good Life* (Murray, 10/6); *The Development of the European Nations* (1870-1921), by J. Holland Rose (Constable, 10/6); *Fifty Years* (1880 - 1930), (Thornton Butterworth, 7/6); *Schliemann of Troy,* by Emil Ludwig (Putnam, 21/-); *The Letters of Gertrude Bell* (Benn, 8/6); *Lincoln,* by Emil Ludwig (Putnam, 7/6); *Akbar,* by Laurence Binyon (Davies, 5/-); *The Last Years, 1896-1901, Letters of Queen Victoria,* edited by G. E. Buckle (Murray, 25/-); *The Ballad of the White Horse,* by G. K. Chesterton (Methuen, 3/6); *Economic Prosperity in the British Empire,* by Stephen Leacock (Constable, 7/6); *The Nature of the Physical World,* by Sir A. S. Eddington (Cambridge Press, 5/-); *The Universe Around Us,* by Sir James Jeans (2nd edition, Cambridge Press, 12/6); *The Mechanism of Nature,* by C. Andrade (Bell, 6/-); *The Seas,* by F. S. Russell & C. M. Yonge (Warne, 12/6).

Parents' National Educational Union

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Motto: *"I am, I can, I ought, I will."*

FORMS VI. & V.

Pupils' Names ....

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Scripture.

VI. & V. 1. " For religious faith and practical sagacity he
　　　　　stands conspicuous among the illustrious persons of
　　　　　the Bible."　Justify this estimate of Nehemiah.

　　2. Sketch briefly the contents of the book of Nehemiah
　　　　showing its historical value.

　　3. Summarise the teaching of the prophet Isaiah concern-
　　　　ing the " Servant of Jehovah."

　　4. Give the substance of (*a*), one of the wonderful dis-
　　　　courses of our Lord after the institution of the
　　　　Lord's Supper ; (*b*), His High-priestly Prayer.

　　5. Write, in verse or prose, upon " The Bread of Life."

Composition.

VI. & V. 1. A *Times* Leader on (*a*), a scheme for relieving
　　　　　the burden of unemployment, *or*, (*b*), The Means
　　　　　Test, *or*, (*c*), The British Note on War Debts to
　　　　　the U.S.A., Dec. 1932.

　　2. Some verses in the metre of a modern poem on,—
　　　　(*a*), To the Fallen, *or*, (*b*), Hope (" Say not the
　　　　struggle naught availeth.").

English Grammar.
VI. & V. 1. Analyse the following, and parse the words in italics :—

"*Wrinkled* and grey with eyes a-wonder
And soul beatified, Dreaming John
Watched the marvellous *company gather*
While over the clover a *glory shone* ;
They bore on their *brows* the hues of heaven,
Their limbs were sweet with flowers of the fields,
And their feet were *bright* with the *gleaming* treasure
That prodigal earth to her children *yields*."

VI. 2. Give examples of, and write notes on, place names that record (*a*), ancient history, (*b*), physical changes, (*c*), corruptions, (*d*), errors.

   3. An essay on the qualities of good writing.

V. 2. An essay on "Man makes his own language."

   3. Comment on the meaning and derivation of the following words : *crafty, tinsel, resentment, miser, talent, simple*.

Literature. (Only three questions should be answered.)
VI. & V. 1. By what means does Æschylus — both eye-witness and poet — record the battle of Salamis ? Quote lines where you can.

   2. Dunois : "They" (the men) "must wait for God." *Joan* : "God is waiting for them." Gather up Bernard Shaw's presentation of St. Joan in verse or a short essay.

   3. Describe the parts taken by (*a*), the Spirit of the Pities, (*b*), the Spirit of the Years, (*c*), the Spirit of Rumour, in *The Dynasts*, and give the substance of one of the scenes.

   4. An essay on one of the following subjects touching the thoughts you have gathered on each from the books set,— (*a*), "Recreation" ; (*b*), "Reading Books" ; (*c*), "A Portrait" ; (*d*), "A City That Was."

   5. A scene for acting from one of the novels you have read this term.

   6. (*a*), The Great Trunk Road, *or*, (*b*), Lhasa — An Impression.

   7. Write notes of appreciation on any three of the modern poems you have enjoyed.

British History.
VI. & V. 1. What impressions have you gathered as to the responsibilities of England in the first weeks of the Great War ? Show how the whole Empire soon shared these responsibilities.

   2. Sum up briefly the thoughts that Armistice Day should bring, (*a*), as to the past ; (*b*), as to the future.

V. 3. In what respects has the system of Government in the British Empire altered since 1918 ? Dates.

General History.
VI. & V. 1. Give some account of the national rivalries in Europe which led to the accumulation of armaments for fifty years before 1914. Dates.

VI. 2. What events led the United States to abandon their neutrality in the Great War ? Give some account of the speech of President Wilson (*a*), in this connection and (*b*), on "the programme of the world's peace" in 1918.

   3. Trace briefly the course of the Great War, indicating the chief events and the extent of the battle areas. Dates.

or, 3. "Instead of sixteen existing states, forty-seven lesser states have been promoted to recognition since 1918." Explain this as far as Europe is concerned and discuss its consequences.

V. 2. Write a short account showing the various aspects of the work of "the Silent Service" in the Great War.

   3. Describe briefly (*a*), the Russian revolution and its consequences ; *or*, (*b*), the modern discovery of an Ægean Civilisation.

German.
VI. & V. 1. Write a letter, in German, describing a Christmas festival.

VI. 2. Describe a scene from the boyhood of Jörn Uhl.

V. 2. "Elizabeth" and "Richard" hunt for strawberries in the wood. Describe the scene.

   3. Translate into German,— VI., *Modern Essays*, p. 176, "The Knight . . . . to die. V. *Alpha of the Plough*, p. 75, "You must take . . . . or waited."

Every-Day Morals and Economics.
VI. 1. Trace, as far as you can, the arguments presented by Socrates in the address of the Laws.

   2. Write an essay on (*a*), "Peace and Strife as Elements in Life" ; *or*, (*b*), The special problems of the British Empire in relation to the League of Nations ; *or*, (*c*), The Capitalist.

V. 1. Write upon "Will and Wilfulness," giving examples from the books you have read this term.

   2. Write a short essay on the League of Nations and its work, showing why a knowledge of it is necessary in taking our part in public opinion.

Geography.

VI.&V. 1. Name the natural regions of France. (a). Write fully upon one of them; or, (b), Show "that local diversities unite in basal resemblances."

VI. 2. Write upon the physical influences which act on the distribution of plants and show in what respects the distribution of animals differs from that of plants.

V. 2. Explain the nature and formation of a cloud. Classify the different kinds of clouds. Drawings.

VI & V. 3. From an ordnance survey map of your own neighbourhood, plan a fifteen mile walk. Describe it in detail giving distances.

General Science.

VI. 1. Discuss "A law of nature is simply a statement of relationship" and illustrate it from the work of (a), Goethe; (b), Darwin; (c), Herbert Spencer; (d), Mendel.

V. 1. Write notes on **two** of the following,—(a), the rays from radium; (b), the cause of radio-activity; (c), positive electricity and the new method of analysis.

VI.&V. 2. Write a short account of the Devonian rock system with its flora and fauna. Drawings.

Biology, Botany, etc.

VI. 1. Write an essay on "Animal Behaviour."

2. (a), "We have far more reason to believe that the world . . . . . was created by a prescient intelligence than that (b), it is the outcome of the selection of environment on casual variations." Trace the argument followed in (a) and in (b).

V. 1. "In photosynthesis green plants use energy which comes from the the sun to manufacture food." Explain fully and describe experiments in illustration.

2. Describe with drawings, the method of seed dispersal of the following plants,—(a), poppy; (b), Columbine; (c), dandelion; (d), scots pine; (e), wild carrot; (f), herb-robert.

Astronomy.

VI. 1. "At first glance at least, life seems to be an utterly unimportant by-product" (of the universe). Discuss.

V. 1. What can we learn from spectrum analysis about the nature of the sun?

VI. & V. 2. Write notes on any sky-watching you have been able to do this term, as to (a), the planets through a telescope; (b), constellations. Diagrams.

Italian.

1. Write a letter to a friend telling a story from the Italian front in the Great War.

2. Read a new short poem from your anthology and write a free translation in English.

3. Write, in Italian, a short incident from one of the books you have read this term.

Latin.

VI. 1. (a) Decline the Singular of "unus vir" and "ensis acer." (b) Use in sentences the Comparative and Superlative of *magnus* and *parvus*, and of the adverbs (name these) derived from them.

2. Make and translate sentences to illustrate three different kinds of Conditional Sentences.

3. "A Book of Latin Letters" (Levens) Letter 57: (a) Translate lines 21-37; (b) Narrate in Latin.

V. (Second year). 1. Translate: (a) A fierce battle was fought there, nor had the citizens seen anything like it before. (b) Let the Romans fortify the town lest the barbarians should break through the walls.

V. (First year). 1. Translate (a) The boys and you fear the wolves. (b) They sent some elephants to Rome, others, after three days, into Gaul. (c) The General sent great forces to attack the city.

V. (First and Second years). 2. Livy Book II., chapter 6. Translate §§ 5-8, from "Postquam in agrum Romanum" to "derigit."

3. *Either* read again in Latin, and write a narration, or, parse each word in the sentences "Ipse . . . adeste."

Arithmetic.

(Second Year.)

1. A man holds £5000 of a $5\frac{1}{2}$ per cent stock and pays Income Tax at 5/- in the £; he sells out at par and re-invests in stock at 96 which pays $4\frac{1}{2}$ per cent free of Income Tax; find the change in his net income.

2. Using logarithms find the amount at Compound Interest of £935 : 8s. in 6 years at $2\frac{1}{2}$ per cent.

3. The velocity of sound in air at temperature $t°$ c., when the pressure of the air is p lb. per sq. in., is v ft. per second, where

$$v = \sqrt{\left\{ 45 \cdot 08 \times \frac{144p}{0 \cdot 0805} \times \left(1 + \frac{t}{273} \right) \right\}}$$

Find v if $p = 14 \cdot 7$, $t = 16$.

(First Year.)

1. What income will be derived from investing £7560 in 3 per cent stock at $94\frac{3}{8}$, brokerage $\frac{1}{8}$?

2. A man receives a bill for £360 due in 4 months. He immediately discounts it for £357. What is the rate of discount?

3. AB is a rod 21 in. long balanced at a point C. Weights of 3 lb. and 4 lb. are hung from A and B respectively. What must the distance AC be in order that the rod may be horizontal?

Geometry.

(Second year.)

1. The areas of similar triangles are proportional to the squares on corresponding sides.
2. The side AB of a triangle ABC is trisected at P and Q; the lines drawn through P, Q, parallel to BC cut AC in R and S respectively. Prove that the area of the quadrilateral PQSR is $\frac{1}{3}$ that of the triangle ABC.
3. Prove geometrically that $(a+b)^2 = a^2 + 2ab + b^2$

(First Year.)

1. Show that a straight line drawn parallel to one side of a triangle cuts the other 2 sides, or those sides produced, proportionally.
2. Prove that the internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle.
3. D is the middle point of the side BC of triangle ABC; DE and DF bisect the angles ADB, ADC respectively, DE meeting AB in E and DF meeting AC in F; prove that EF is parallel to BC.

Algebra

(Second Year.)

1. Draw the graph of $y = 2^x$ from $x = -3$ to $x = 5$ and from it find approximately the logarithms of 10 and 20 to base 2.
2. Without using tables find the value of $(7\frac{58}{81})^{-\frac{3}{4}}$ and prove that: $\log_{10}8.8 + \log_{10}3.75 - \log_{10}0.33 = 2$.
3. The space described by a moving point varies as the sum of two quantities, one of which varies as the time and the other as the square of the time; in 3 seconds it describes 228 feet and in 5 seconds 500 feet. How far will it go in 10 seconds?

(First Year.)

1. Solve the equations:
    (i.) $\dfrac{a(x-a)}{x-b} + \dfrac{b(x-b)}{x-a} = a+b$
    (ii.) $\dfrac{x+2}{x+1} - \dfrac{x+3}{x+2} = \dfrac{x+4}{x+3} - \dfrac{x+5}{x+4}$
2. Draw the graph of $y = (x+2)^2$ from $x = 2$ to $x = -6$ and hence solve the equation $x^2 + 4x + 4 = 0$.
3. Solve the following equations:
    (i.) $(x+8)(x-3) = 3x$
    (ii.) $5(x-1)^2 = (x-2)^2$ given that $\sqrt{5} = 2.236$.

Art Studies.

VI.&V. 1. Describe Raphael's "Transfiguration," giving, with pen or brush, (a), a rough idea of the composition, or, (b), a figure in detail.

2. Write a short account of Giotto, with notes on three of his pictures which interested you most.
3. Show in what respects climatic influence may be traced in the craft work of (a), Egypt, (b), Persia.

VI. 4. Write notes, with drawings on the Gothic architecture in any cathedral you have visited.

V. 4. Write briefly what you know of the characteristic features of Saracenic architecture.

Painting.

1. A section of a design (a), for embroidery (or weaving), in seed vessels on stalks,—e.g., one of the umbelliferæ; or, (b), for a tile in a conventional pattern.
2. A study in colour texture, e.g., a coat or cloak for a play, with velvet, fur, lace and clasp.

Music Appreciation.

What works of Haydn have you heard this term and what have you learnt? Write upon the form of one of his works.

Reading.

Father to choose an unseen (a), essay, (b), poem.

Music.

Parents to report upon practical examination.

Singing. *

Father to choose an English and a French song.

Drill. *

Report progress.

Work, Crafts, etc. *

Outside friend to examine, but list of handicrafts completed to appear on Parents' Report.

N.B. 1.— Examination to begin on Monday, Dec. 5th. The examination should last a full school week. Papers to be posted on Dec. 10th, with no other enclosure. **Parents' Reports, Form "J," loose papers, etc., sent later cannot be added.**

N.B. 2.—Subjects thus indicated (*) to be marked on the Parents' or Teacher's Report according to Regulations, and **marks to be added up.** For scale of values see head of Report Form.

N.B. 3.—Please note carefully the Regulations as to the number of papers to be sent in by schools.

N.B. 4.—Members overseas may send in papers for examination at the end of any two terms in the year.

Members are asked to state on the Parents' or Teachers' Report Form (a), how the pupil has worked during the term; (b), if there has been any handicap on account of illness during the term; (c), the reason for the omission of subjects in the examination.

FORM VI. & V.

French. (All answers to be written in French.)

VI. & V. 1. Write a résumé of *Carmosine*.

VI. 2. A short description of Disraëli from your reading of the life by André Maurois.

V. 2. (*a*), A short scene for acting from *Le Roi des Montagnes*; *or*, (*b*), a recollection of your own childhood.

3. Translate into French : VI., *Modern English Essays*, page 164, *Alphonse Daudet*, "And Daudet was honest . . . themselves." V., *Alpha of the Plough*, page 33, " I was putting on . . . . nor the other."